

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S3	38	(alumina with needle with substrate)	US-PGPUB; USPAT	OR	ON	2007/06/11 17:06
S5	1	(alumina with needle with substrate with (grain or granular or granulated or spherical) )	US-PGPUB; USPAT	OR	ON	2007/06/11 17:06
S11	0	S10 and (alumina with needle with (grain or granular or granulated or spherical) )	US-PGPUB; USPAT	OR	ON	2007/06/11 17:18
S12	9	S10 and (alumina with (grain or granular or granulated or spherical) )	US-PGPUB; USPAT	OR	ON	2007/06/11 18:18
S14	14	((alumina near2 shaped) with needle)	US-PGPUB; USPAT	OR	ON	2007/06/11 18:18
S15	38	(alumina with needle with substrate )	US-PGPUB; USPAT	OR	ON	2007/06/11 19:27
S16	14	( ((aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o. sub.3" or al2o3) with needle with substrate )	US-PGPUB; USPAT	OR	ON	2007/06/11 19:32
S21	21	S20 not S17	US-PGPUB; USPAT	OR	ON	2007/06/11 19:33
S20	33	( (alumina or (aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o.sub.3" or al2o3) near needle )	US-PGPUB; USPAT	OR	ON	2007/06/11 19:36
S30	20	( ((alumina or (aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o.sub.3" or al2o3) ) with oblong )	US-PGPUB; USPAT	OR	ON	2007/06/13 17:49
S31	45	((alumina or (aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o.sub.3" or al2o3) with (shape or shaped) with ((metal or metallic) near (base or substrate or plate)))	US-PGPUB; USPAT	OR	ON	2007/06/13 18:06
S37	54	( ((alumina or (aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o.sub.3" or al2o3) near2 (rod or pole or needle or columnar or pillar)) with (layer or film) with (substrate))	US-PGPUB; USPAT	OR	ON	2007/06/18 18:34
S41	2	( S40 and ((alumina or (aluminum adj oxide) or "al.sub.2o. sub.3" or "al.sub.2 o.sub.3" or al2o3) near2 (rod or pole or needle or columnar or pillar) )	US-PGPUB; USPAT	OR	ON	2007/06/18 18:35
S42	0	( ((alumina or (aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o.sub.3" or al2o3) near2 (rod or pole or needle or columnar or pillar)) with (pcb or (printed adj circuit adj board) or (wiring adj (board or substrate)))) )	US-PGPUB; USPAT	OR	ON	2007/06/18 18:35
S43	0	( ((alumina or (aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o.sub.3" or al2o3) near2 (rod or pole or needle or columnar or pillar)) and (pcb or (printed adj circuit adj board) or (wiring adj (board or substrate))))).ab. )	US-PGPUB; USPAT	OR	ON	2007/06/18 18:35
S44	8	((alumina or (aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o.sub.3" or al2o3) near2 (rod or pole o needle or columnar or pillar)) and (pcb or (printed adj circuit adj board) or (wiring adj (board or substrate))))).ab.	US-PGPUB; USPAT	OR	ON	2007/06/20 19:58
S17	12	( (alumina or (aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o.sub.3" or al2o3) near needle )	US-PGPUB; USPAT	OR	ON	2007/06/22 17:16
S78	12	S77 not S73	US-PGPUB; USPAT	OR	ON	2007/06/22 17:58
S81	32	S80 not (S77 or S73)	US-PGPUB; USPAT	OR	ON	2007/06/22 18:22
S91	3	S85 and ("257"/\$7.cor.)	US-PGPUB; USPAT	OR	ON	2007/06/22 18:24

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S90	49	S89 not (S80 or S77 or S73)	US-PGPUB; USPAT	OR	ON	2007/06/22 18:25
S10 5	27	S103 not S104	US-PGPUB; USPAT	OR	ON	2007/06/22 18:41
S10 8	8	(( (titanium adj oxide) ) with (granular or particle or particulate or spherical) with (heat adj conductivity))	US-PGPUB; USPAT	OR	ON	2007/06/22 18:58
S10 6	16	(( (titanium adj dioxide) or titania) with (granular or particle or particulate or spherical) with (heat adj conductivity))	US-PGPUB; USPAT	OR	ON	2007/06/22 18:58
S10 7	0	(( (titanium adj dioxide) ) with (granular or particle or particulate or spherical) with (heat adj conductivity))	US-PGPUB; USPAT	OR	ON	2007/06/22 18:58
S10 2	41	(( (silica or mgo or (magnesium adj oxide) or (titanium adj dioxide) or titania) with (granular or particle or particulate or spherical) with (heat adj conductivity))	US-PGPUB; USPAT	OR	ON	2007/06/22 19:13
S10 9	11	(( (mgo or (magnesium adj oxide) ) with (granular or particle or particulate or spherical) with (heat adj conductivity))	US-PGPUB; USPAT	OR	ON	2007/06/22 19:19
S11 1	22	(( (mgo or (magnesium adj oxide) ) with (granular or particle or particulate or spherical) with (heat adj conductive))	US-PGPUB; USPAT	OR	ON	2007/06/22 19:19
S11 2	20	S111 not S109	US-PGPUB; USPAT	OR	ON	2007/06/22 19:20
S10 3	36	S102 and (@ad<"20041007" or @rfad<"20041007")	US-PGPUB; USPAT	OR	ON	2007/06/22 19:39
S12 1	0	(( (alumina or (aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o.sub.3" or al2o3) with (major\$1axis or (aspect adj ratio) or ((major or minor) adj axis) or minor\$1axis or aspect\$1ratio) with evenly)	US-PGPUB; USPAT	OR	ON	2007/06/22 20:02
S12 0	19	(( (alumina or (aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o.sub.3" or al2o3) with (major\$1axis or (aspect adj ratio) or ((major or minor) adj axis) or minor\$1axis or aspect\$1ratio) with aggregate)	US-PGPUB; USPAT	OR	ON	2007/06/22 20:02
S12 2	19	(( (alumina or (aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o.sub.3" or al2o3) with (major\$1axis or (aspect adj ratio) or ((major or minor) adj axis) or minor\$1axis or aspect\$1ratio) with uniform)	US-PGPUB; USPAT	OR	ON	2007/06/22 20:04
S12 5	37	(( (particle) with ((major\$1axis or (aspect adj ratio) or ((major or minor) adj axis) or minor\$1axis or aspect\$1ratio) near3 (adjust or adjusting or tailor or modify or modifying or modified or tailored or adjusted)) )	US-PGPUB; USPAT	OR	ON	2007/06/22 20:06
S12 4	4	(( (filler) with ((major\$1axis or (aspect adj ratio) or ((major or minor) adj axis) or minor\$1axis or aspect\$1ratio) near3 (adjust or adjusting or tailor or modify or modifying or modified or tailored or adjusted)) )	US-PGPUB; USPAT	OR	ON	2007/06/22 20:06
S14 6	4	S144 and (flat or flatness or planarity or planar)	US-PGPUB; USPAT	OR	ON	2007/06/24 12:34
S14 5	4	S144 and (rough or roughness)	US-PGPUB; USPAT	OR	ON	2007/06/24 12:37
S88	11	S85 and ("438"/\$7.cor.)	US-PGPUB; USPAT	OR	ON	2007/06/24 12:41
S12 3	3	(( (alumina or (aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o.sub.3" or al2o3) with ((major\$1axis or (aspect adj ratio) or ((major or minor) adj axis) or minor\$1axis or aspect\$1ratio) near3 (adjust or adjusting or tailor or modify or modifying or modified or tailored or adjusted)) )	US-PGPUB; USPAT	OR	ON	2007/06/24 12:41

## EAST Search History

S15 6	19	S155 not S154	US-PGPUB; USPAT	OR	ON	2007/06/24 12:47
S15 4	38	S153 and ("438"/\$7.cor.)	US-PGPUB; USPAT	OR	ON	2007/06/24 12:47
S15 9	30	S158 and (@ad<"20041007" or @rlad<"20041007")	US-PGPUB; USPAT	OR	ON	2007/06/24 13:04
S15 8	30	((alumina or (aluminum adj oxide) or "al.sub.2o.sub.3" or "al.sub.2 o.sub.3" or al2o3) with ((granular or particle or particulate or spherical) near2 (size or length)) with (optimize or optimal or optimization or optimizing))	US-PGPUB; USPAT	OR	ON	2007/06/24 13:04
S16 4	35	S163 and (@ad<"20041007" or @rlad<"20041007")	US-PGPUB; USPAT	OR	ON	2007/06/24 13:09
S16 3	37	S162 and ("257"/\$7.cor.)	US-PGPUB; USPAT	OR	ON	2007/06/24 13:09
S16 1	45	S160 and (@ad<"20041007" or @rlad<"20041007")	US-PGPUB; USPAT	OR	ON	2007/06/24 13:09
S15 5	19	S153 and ("257"/\$7.cor.)	US-PGPUB; USPAT	OR	ON	2007/06/24 13:09